

Specifications — SW8/12 VGA Ars

Video

Gain.....	Unity
Bandwidth.....	350 MHz (-3 dB)
Crosstalk.....	-68 dB @ 10 MHz

Video input

Number/signal type.....	8 or 12 (depending on the model) VGA-QXGA RGBHV, RGBS, RGsB, RsGsBs computer video, and HDTV component video
Connectors	8 or 12 (depending on the model) female 15-pin HD
Nominal level	1.0 Vp-p for Y of component video 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels.....	Analog: 0.3 V to 1.5 Vp-p with no offset
Impedance.....	75 ohms
Horizontal frequency.....	15 kHz to 145 kHz
Vertical frequency.....	30 Hz to 170 Hz
Return loss.....	-40 dB @ 5 MHz
Input coupling.....	DC

Video output

Number/signal type.....	2 VGA-QXGA RGBHV, RGBS, RGsB, RsGsBs computer video, and HDTV component video (follows input type)
Connectors	(2) female 15-pin HD
Nominal level	1.0 Vp-p for Y of component video 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels.....	0.3 V to 1.5 Vp-p (follows input)
Impedance.....	75 ohms
Return loss.....	-43 dB @ 5 MHz
DC offset.....	±5 mV with input at 0 offset

Sync

Input type.....	RGBHV, RGBS, RGsB, RsGsBs, bi-level and tri-level sync
Output type.....	RGBHV, RGBS, RGsB, RsGsBs, bi-level and tri-level sync (follows input)
Input level	1.0 V to 5.0 Vp-p
Output level	TTL: 5.0 Vp-p, unterminated
Input impedance	510 ohms
Output impedance	75 ohms
Max. propagation delay	54 ns
Max. rise/fall time	4.7 ns
Polarity.....	Positive or negative (follows input)

Audio

Gain.....	Unbalanced output: +0 dB; balanced output: +6 dB
Frequency response	20 Hz to 20 kHz, ±0.05 dB
THD + Noise.....	0.01% @ 1 kHz at nominal level
S/N.....	>90 dB at maximum output (unweighted)
Crosstalk.....	-45 dB @ 1 kHz, fully loaded
Stereo channel separation	>80 dB 1 kHz

Audio input

Number/signal type.....	8 or 12 (depending on the model) stereo, unbalanced
Connectors	8 or 12 (depending on the model) 3.5 mm female stereo mini jacks; tip (L), ring (R), sleeve (Gnd)
Impedance.....	>10k ohms unbalanced, DC coupled

Specifications — SW8/12 VGA Ars, cont'd

Nominal level	-10 dBV (316 mV)
Maximum level.....	+14 dBV, (unbalanced) at 1% THD+N

NOTE 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

Audio output

Number/signal type.....	2 stereo, balanced/unbalanced: 1 fixed and 1 variable
Connectors	(2) 3.5 mm captive screw connectors, 5 pole
Impedance.....	50 ohms unbalanced, 100 ohms balanced
Nominal level	+4 dBu (1.23 Vrms), balanced -10 dBV (316 mVrms), unbalanced
Variable output's volume range..	0 to 100 (-84 dB to 0 dB), default = 100 = 0 dB
Gain error	±0.1 dB channel to channel
Maximum level (Hi-Z)	+28 dBu, balanced; +20 dBV, unbalanced at 1%THD+N
Maximum level (600 ohm).....	+21 dBm, balanced; +18 dBm, unbalanced at 1%THD+N

Control/remote — switcher

Serial control port.....	RS-232, 9-pin female D connector
Baud rate and protocol.....	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations.	2 = TX, 3 = RX, 5 = GND
"Show Me" contact closure.....	Pin 5 of each VGA input connector. The input is active (selected) when pin 5 momentarily goes to ground.
Program control.....	Extron's Universal Switcher control/configuration program for Windows® Extron's Simple Instruction Set (SIS™)

General

Power	100 VAC to 240 VAC, 50/60 Hz, 10 watts, internal
Temperature/humidity.....	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, no vents
Mounting	
Rack mount.....	Yes, with optional 1U, 9.5" deep rack shelf (RSU 129, #60-190-01; RSB 129, 60-604-01)
Furniture mount.....	Yes, with optional under-desk mounting kit, part #70-077-01 (MBU 125), or through-desk mounting kit, part #70-077-02 (MBD 129)
Enclosure type	Metal
Enclosure dimensions.....	1.75" H x 17.5" W x 9.5" D (1U high, full rack wide) (4.4 cm H x 44.4 cm W x 24.1 cm D) (Depth excludes connectors.)
Product weight	6.3 lbs (2.9 kg)
Shipping weight.....	11 lbs (5 kg)
Vibration.....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	CE, CUL, UL, C-tick
EMI/EMC	CE, C-tick, FCC Class A, VCCI, ICES
MTBF.....	30,000 hours
Warranty.....	3 years parts and labor

NOTE All nominal levels are at ±10%.

NOTE Specifications are subject to change without notice.

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